

Amendments to the Claims

Please cancel Claims 1-18 without prejudice or disclaimer of the subject matter recited therein.

Please add Claims 19-34 as follows.

1-18. (Canceled)

19. (New) An image forming apparatus comprising:

image forming means for forming an image;

a first electrical substrate having an electric circuit for electric power supply to said image forming means;

a second electrical substrate disposed above said first electrical substrate and having an electric circuit for operating said image forming means;

an opening for discharging heat to outside of said image forming apparatus;
and

a guiding member, disposed between said first electrical substrate and said second electrical substrate, for guiding heat of said first electrical substrate to said opening, said guiding member having an inclined portion inclined upwardly toward said opening.

20. (New) An apparatus according to Claim 19, further comprising an additional opening which is disposed adjacent a bottom side of said first electrical substrate and which is in fluid communication with the outside.

21. (New) An apparatus according to Claim 19, further comprising fan means for directing air from said first electrical circuit toward said guiding member.

22. (New) An apparatus according to Claim 19, wherein said second electrical substrate includes an electric circuit for controlling said image forming means.

23. (New) An apparatus according to Claim 19, further comprising a duct between said first electrical substrate and said second electrical substrate for discharging heat from said image forming means to the outside.

24. (New) An apparatus according to Claim 23, wherein said duct is disposed between said guide member and said second electrical substrate.

25. (New) An apparatus according to Claim 23, wherein said duct has a length measured in a direction perpendicular to a guiding direction of said guiding member greater than a length of said first electrical substrate measured in the perpendicular direction.

26. (New) An apparatus according to Claim 19, wherein said guiding member is made of a heat insulation member.

27. (New) An image forming apparatus comprising:
image forming means for forming an image;
a first electrical substrate having an electric circuit for electric power supply to said image forming means;
a second electrical substrate disposed above said first electrical substrate and having an electric circuit for operating said image forming means;
an opening for discharging heat to outside of said image forming apparatus;
and

an air flow forming member, disposed between said first electrical substrate and said second electrical substrate, for directing heat of said first electrical substrate to said opening, said air flow forming member having an inclined portion inclined upwardly toward said opening.

28. (New) An apparatus according to Claim 27, further comprising an additional opening which is disposed adjacent a bottom side of said first electrical substrate and which is in fluid communication with the outside.

29. (New) An apparatus according to Claim 27, further comprising fan means for directing air from said first electrical circuit toward said directing member.

30. (New) An apparatus according to Claim 27, wherein said second electrical substrate includes an electric circuit for controlling said image forming means.

31. (New) An apparatus according to Claim 27, further comprising a duct between said first electrical substrate and said second electrical substrate for discharging heat from said image forming means to the outside.

32. (New) An apparatus according to Claim 31, wherein said duct is disposed between said air flow forming member and said second electrical substrate.

33. (New) An apparatus according to Claim 31, wherein said duct has a length measured in a direction perpendicular to a directing direction of said air flow forming member greater than a length of said first electrical substrate measured in the perpendicular direction.

34. (New) An apparatus according to Claim 27, wherein said air flow forming member is made of a heat insulation member.